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NODULATION STATUS OF SOME LEGUME SPECIES FROM CACHE VALLEY AND NORTHERN UTAH

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ABSTRACT

Nodulation was studied in 60 species within 31 genera distributed in sixteen tribes of sub-families Mimosoideae and Papilionoideae from the Cache Valley and northern Utah. All the species examined were nodulated to various extent under natural habitat or when grown in uninoculated garden soil. Nodulation in seven species within five genera is reported for the first time as checked against existing reports of nodulation.

KEY WORDS: Nodulation, Leguminosae, Mimosoideae, Papilionoideae, taxonomy, Utah

INTRODUCTION

The Utah flora is abundantly represented among legumes. The legume family, with 48 genera and 248 species, is one of the largest families found in Utah (Welsh, *et al.* 1993). In number of species, the family ranks second after Asteraceae and third after Poaceae (Welsh, *et al.* 1993). Weedy species represent only a small proportion of adventive species, the majority of adventives consists of cultivated crops and ornamental plants. More than half of 48 legume genera in Utah, accounting for about 52 species, are known from introduced plants (Welsh, *et al.* 1993). The family is economically important as a source of quality timber, protein-rich seeds, and nutritious fodder. The most economically derived crop is alfalfa and thousands of acres are planted to this forage crop in the fields, ranches, and rangelands of Utah. Little is known about nodulating legumes or their rhizobia from Utah. The present study was conducted to determine the nodulating ability of some of the legume species of Utah.

MATERIALS AND METHODS

Legume species growing under natural growth conditions were surveyed for their nodulating ability from the Cache Valley and adjacent six counties of northern Utah. Climatic conditions in these counties vary from the hot, dry desert of western Box Elder County to the humid alpine ecosystem of Summit and Daggett counties (Shaw 1989). Phytophotographic considerations in Utah involve the concepts of floras previous to the recent past, migrational pathways, and development of species in place (Welsh, *et al.* 1993).

Periodic field trips were made during late spring and summer to various counties of northern Utah. Observations of nodules were made as described previously (Athar 1996a). Wild legumes were examined under natural habitats while legumes of agricultural importance were observed from the cultivated fields. Legumes examined included herbs, shrubs, trees, and vines. Some of the grain and tree legumes were grown in pots containing garden soil. Nodules were distinguished from other kinds of root-malformations such as those caused by nematodes, insects or other root-inhabiting parasitic microorganisms.

RESULTS AND DISCUSSION

Table 1 gives results of 60 species within 31 genera distributed in sixteen tribes of sub-families Mimoideae and Papilionoideae. Species are arranged alphabetically within genera. The nomenclature and tribal classification are those following Polhill & Raven (1981). Authors' citations are quoted following instructions of Brummit & Powell (1992) as endorsed by the International Working Group on Taxonomy Database for Plant Science (TDWG). The species reported here represent only one fourth of the species listed as occurring in Utah. All the species examined were nodulated to various extents. Nodulation in seven species within five genera is reported for the first time as checked against existing reports of nodulation (Aguilar, *et al.* 1994; Allen & Allen 1981; Athar 1996a, 1996b, 1997; Athar & Mahmood 1990; Faria, *et al.* 1994; Moreira, *et al.* 1992; Mahmood & Iqbal 1994; Subramaniam & Babu 1994). The nodules observed in other species confirmed earlier reports (Allen & Allen 1981; Athar 1996a; Mahmood & Iqbal 1994).

It was not possible to carry out either structural studies, test for acetylene reduction activity or to isolate rhizobia from the nodulated legumes. Since the legume species examined from northern Utah were all nodulated to various extents, they may help in improving the soil fertility of rangelands of the Intermountain Region. Improved nitrogen availability in rangeland soils through legume-*Rhizobium* symbiosis would substantially improve their forage production capacity and at the same time improve stability of these sometimes fragile ecosystems. It would be imperative that further research be conducted to select legume-*Rhizobium* combinations and their role in increasing the productivity of agriculture and rangelands of Utah.

Table 1. List of legume species examined for nodulation.

Species	Legume		Nodulating status ³
	Type ¹	Habit ²	
MIMOSOIDEAE			
Acacieae			
<i>Acacia nilotica</i> (L.) Willd. ex Del.	CG	T	A
Mimoseae			
<i>Leucaena leucocephala</i> (Lam.) de Wit.	CG	T	A
<i>Mimosa pudica</i> L.	CG	H	A
<i>Prosopis glandulosa</i> Torr.	WF	T	A
<i>P. juliflora</i> (Sw.) DC.	WG	T	A
PAPILIONOIDEAE			
Aeschynomeneae			
<i>Arachis hypogaea</i> L.	CG	H	A
Cicerae			
<i>Cicer arietinum</i> L.	CG	H	A
Dalbergieae			
<i>Dalbergia sisso</i> Roxb.	CG	T	A
Galegeae			
<i>Astragalus argophyllus</i> Nutt. ex T. & G.	WF	H	B
<i>A. beckwithii</i> T. & G.	WF	H	B
<i>A. cicer</i> L.	WF	H	A
Genisteae			
<i>Lupinus argenteus</i> Pursh	WF	H	B
<i>L. leucophyllus</i> Dougl.	WF	H	B
Hedysareae			
<i>Hedysarum boreale</i> Nutt.	WF	H	A
<i>H. occidentale</i> Greene	WF	H	B
Indigoferae			
<i>Cyamopsis tetragonoloba</i> (L.) Taub.	CG	HS	A
Loteae			
<i>Lotus corniculatus</i> L.	WF	H	A
Millettiaeae			
<i>Wisteria chinensis</i> DC.	CF	V	A

Table 1. (continued).

Species	Legume		Nodulating status ³
	Type ¹	Habit ²	
Phaseoleae			
<i>Cajanus cajan</i> (L.) Millsp.	CG	ST	A
<i>Clitoria ternatea</i> L.	CG	H	A
<i>Glycine max</i> (L.) Merr.	CG	H	A
<i>Lablab purpureus</i> (L.) Sweet	CG	H	A
<i>Macroptilium atropurpureum</i> Urb.	CG	H	A
<i>Phaseolus coccineus</i> L.	CG	H	A
<i>P. lunatus</i> L.	CG	H	A
<i>P. vulgaris</i> L.	CG	H	A
<i>Vigna aconitifolia</i> (Jacq.) Marechal.	CG	H	A
<i>V. mungo</i> (L.) Hepper	CG	H	A
<i>V. radiata</i> (L.) Wilczek.	CG	H	A
<i>V. unguiculata</i> (L.) Walp.	CG	H	A
Thermopsideae			
<i>Thermopsis montana</i> Nutt.	WF	H	A
<i>T. rhombifolia</i> (Nutt.) Richards	WG	H	B
Robinieae			
<i>Robinia pseudoacacia</i> L.	CG	T	A
<i>Sesbania punicea</i> Benth.	CG	ST	A
<i>S. sesban</i> L.	CG	ST	A
Trifolieae			
<i>Medicago falcata</i> L.	WG	H	A
<i>Medicago lupulina</i> L.	WF	H	A
<i>Medicago polymorpha</i> L.	WF	H	A
<i>Medicago sativa</i> L.	CF	H	A
<i>Melilotus alba</i> Medik.	WF	H	A
<i>Melilotus indica</i> (L.) All.	WF	H	A
<i>Melilotus officinalis</i> (L.) Lam.	WF	H	A
<i>Trifolium alexandrinum</i> L.	CG	H	A
<i>Trifolium fragiferum</i> L.	WF	H	A
<i>Trifolium pratense</i> L.	CG	H	A
<i>Trifolium repens</i> L.	CG	H	A
<i>Trifolium subterraneum</i> L.	CG	H	A
<i>Trifolium variegatum</i> Nutt.	WF	H	A
<i>Trigonella foenum-graecum</i> L.	CF	H	A

Table 1. (continued).

Species	Legume		Nodulating status ³
	Type ¹	Habit ²	
Vicieae			
<i>Lathyrus brachycalyx</i> Rydb.	WF	V	B
<i>L. latifolius</i> L.	CF	V	A
<i>L. odoratus</i> L.	CF	V	A
<i>L. sativus</i> L.	CG	V	A
<i>L. sylvestris</i> L.	WF	V	A
<i>Lens culinaris</i> Medik.	CG	H	A
<i>Pisum sativum</i> L.	CF	V	A
<i>Vicia americana</i> Muhl.	WF	H	A
<i>V. faba</i> L.	CF	H	A
<i>V. sativa</i> L.	WF	V	A
<i>V. villosa</i> Roth.	WF	V	A

¹Plant type: C = Cultivated; W = Wild; F = Studied in the field under natural habitat; G = Studied in pots containing garden soil.

²Plant habit: H = Herb; S = Shrub; T = Tree; V = Vine or climber.

³Nodulating status: A = Nodulation previously observed; B = New report.

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INDEX TO PHYTOLOGIA VOLUMES 21-25

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ABSTRACT

A summary of taxonomic citations found in *Phytologia* is made in order to facilitate searching for references to particular plants in the journal. The taxon index for the first volume of *Phytologia* included entries at the species level and above. However, indices for volumes 2 through 67 included entries only at the genus level and above. The present summary of taxon citations includes all citations from volumes 21 through 25. Later summaries will include the remaining volumes through volume 67. Boldface entries indicate that the taxon was originally described or a new combination produced on the indicated page.

KEY WORDS: Taxonomic index, new taxa, nomenclature

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